## **REMARKS**

Claims 1-20 remain in the application for examination. Claim 1 has been amended. Favorable consideration of the application is respectfully requested.

Applicants gratefully acknowledge the Examiner's participation in the telephone interview of September 25, 2007. Favorable consideration of the application is respectfully requested.

FIG. 2 has been amended and FIG. 2A has been added to address the interview discussion related to clarifying what is meant by "angular spacing".

Claim 1 has been amended to recite a "helical end mill comprising a body having a circumferential face bearing a plurality of pockets for receiving cutting inserts, wherein the cutting inserts are arranged in at least two rows a first row and a second row and at least three columns on the circumferential face, wherein the angular spacing of the cutting inserts within at least one of the rows the first row varies within the row, wherein the angular spacing of the cutting inserts within the second row varies within the row."

Basis for this amendment can be found in the specification at paragraph [0024] and Fig. 2.

## Rejection Under 35 USC § 102(b)

The Examiner rejects Claims 1-20 under 35 U.S.C. § 102(b) as being allegedly anticipated by U.S. Patent No. 5,947,649 to Arai et al. (Arai '649). As amended, independent Claim 1 recites "[a] helical end mill...wherein the angular spacing of the cutting inserts within at least one of the rows the first row varies within the row, wherein the angular spacing of the cutting inserts within the second row varies within the row."

Arai '649 does not teach or suggest buried angular spacing of the cutting inserts within a first row and varied angular spacing of the cutting inserts within a second row. Paragraph [0022] of the specification recites "rows referred to as pockets 16 which are generally at the same vertical level when tool 10 is vertically oriented as seen in Fig. 1." Moreover, at paragraph [0023], angular spacing is described in the following manner; "...at least one pocket 16 of a selected row of a flute 24 is angularly irregularly or unequally spaced from or with respect to proximity of a second pocket 15 of the same selected row but of flute 24 (or more generically stated, of a second column), and to a third pocket 16 of the same selected row butt of

flute 26 (again, more generically stated, a third column)." As discussed during the interview,

angular spacing of inserts within various rows would be measured in and end view or cross-

section of the cutter oriented as seen in Fig. 2 and Fig. 6, i.e. in a plane generally perpendicular

to longitudinal axis 120 shown in Fig. 5. Arai '649 does not teach or suggest angular spacing of

the cutting inserts within one of the rows and angular spacing of the cutting inserts within a

second row. Accordingly, independent Claim 1 and Claims 2-10 dependent therefrom are not

anticipated by Arai '649.

Independent Claim 11 recites "the angular spacing of the cutting inserts within the

first row varies within the first row, and the angular spacing of the cutting inserts within the

second row varies within the second row and varies from the angular spacing of the cutting

inserts within the first row." Arai '649 does not teach or suggest a helical end mill in which "the

angular spacing of the cutting inserts within the first row varies within the first row, and the

angular spacing of the cutting inserts within the second row varies within the second row and

varies from the angular spacing of the cutting inserts within the first row." Accordingly, it is

submitted independent Claim 11 and Claims 12-20 depending therefrom are not anticipated by

Arai '649.

For at least the foregoing reasons, Claims 1-20 are patentable over the prior art of

record. Accordingly, an early notice of allowance of this application is respectfully requested.

In the event that any outstanding matters remain in connection with the present

application, the Examiner is invited to telephone the undersigned to expedite the handling of such

matters.

Respectfully submitted,

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